

F I G. 1

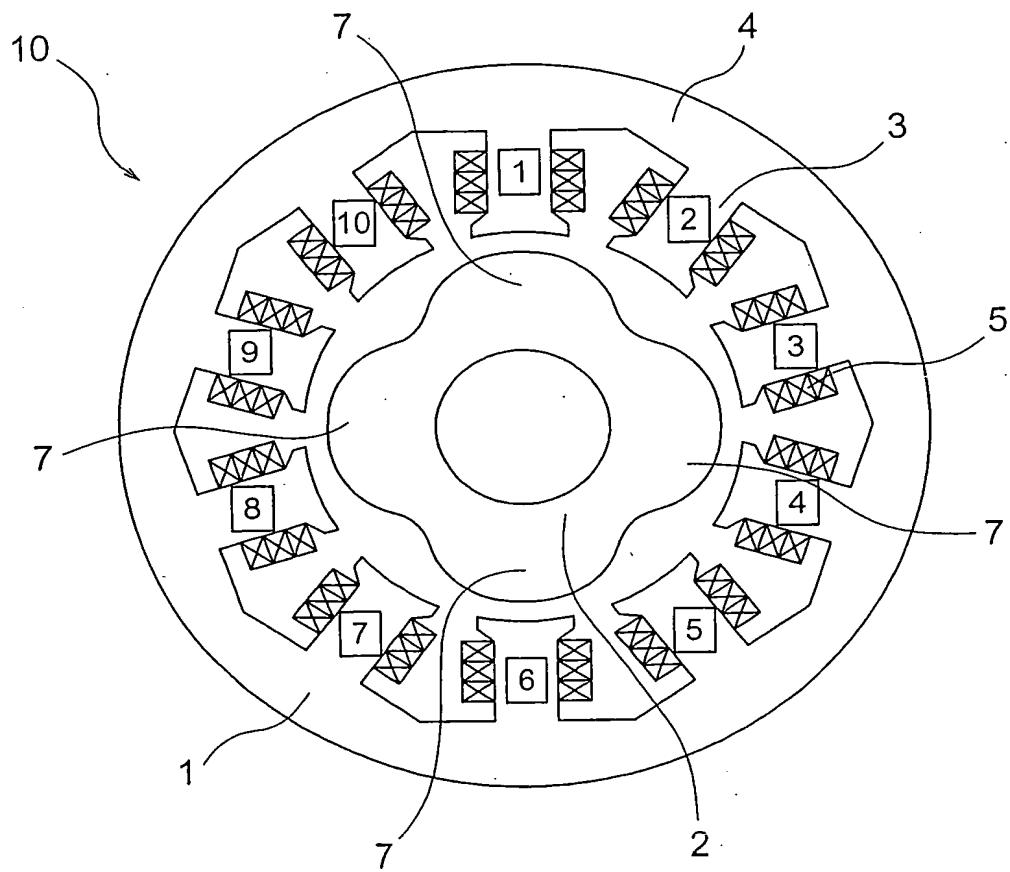


FIG. 2

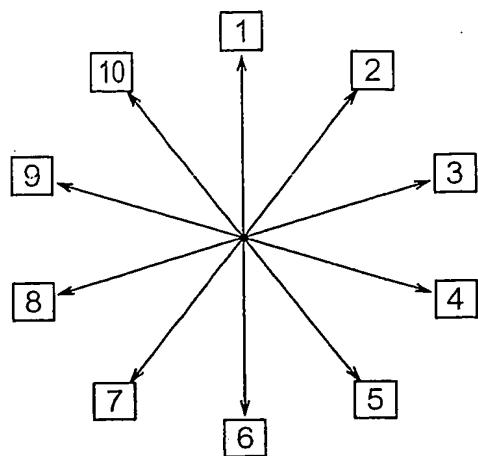
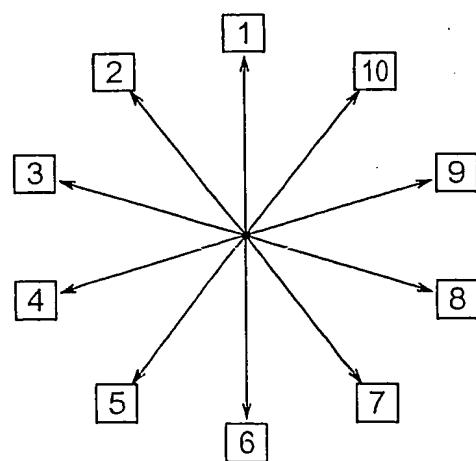


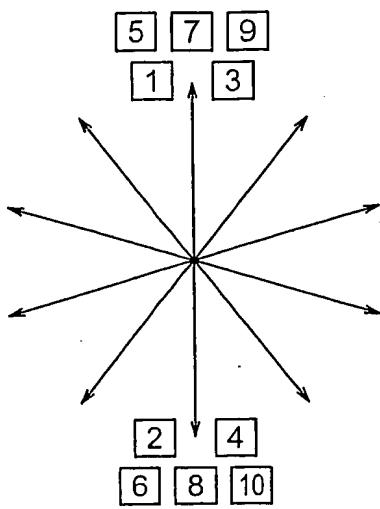
FIG. 3



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FIG. 4



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FIG. 5

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10
EXCITATION WINDING	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0
FIRST PHASE	1.0	0.0	0.0	-1.0	0.0	-1.0	0.0	0.0	0.0	0.0
SECOND PHASE	0.0	0.0	-1.0	0.0	-1.0	0.0	0.0	0.0	1.0	0.0
THIRD PHASE	-1.0	0.0	-1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
FOURTH PHASE	-1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	-1.0	0.0
FIFTH PHASE	0.0	0.0	1.0	0.0	0.0	-1.0	0.0	0.0	-1.0	0.0

FIG. 6

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10
EXCITATION WINDING	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0
α -PHASE WINDING	2.6180	0.0000	0.8090	0.0000	-2.1180	0.0000	-2.1180	0.0000	0.8090	0.0000
β -PHASE WINDING	0.0000	0.0000	-2.4899	0.0000	-1.5388	0.0000	1.5388	0.0000	2.4899	0.0000

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FIG. 7

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10
EXCITATION WINDING	50	-50	50	-50	50	-50	50	-50	50	-50
α -PHASE WINDING	261.80	0.00	80.90	0.00	-211.80	0.00	-211.80	0.00	80.90	0.00
β -PHASE WINDING	0.00	0.00	-248.99	0.00	-153.88	0.00	153.88	0.00	248.99	0.00

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FIG. 8

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10
EXCITATION WINDING	50	-50	50	-50	50	-50	50	-50	50	-50
α -PHASE WINDING	262	0	81	0	-212	0	-212	0	81	0
β -PHASE WINDING	0	0	-249	0	-154	0	154	0	249	0

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FIG. 9

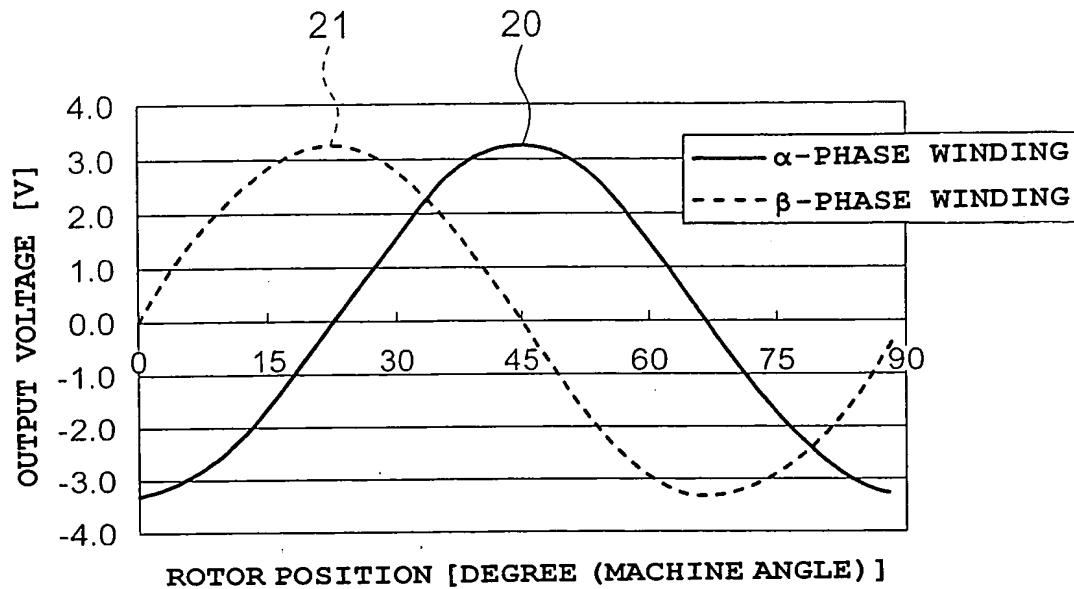
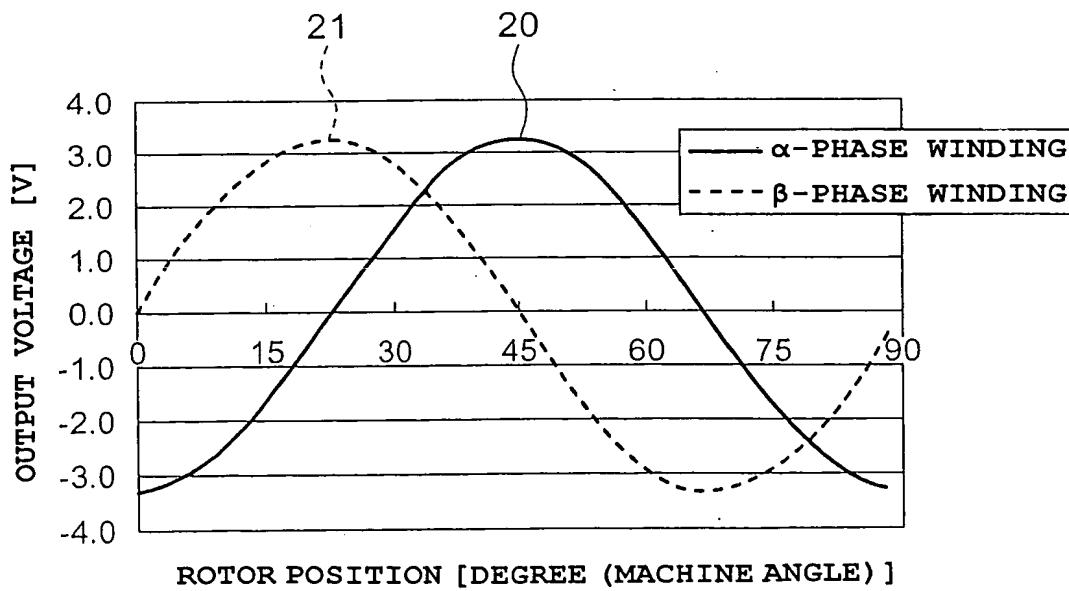
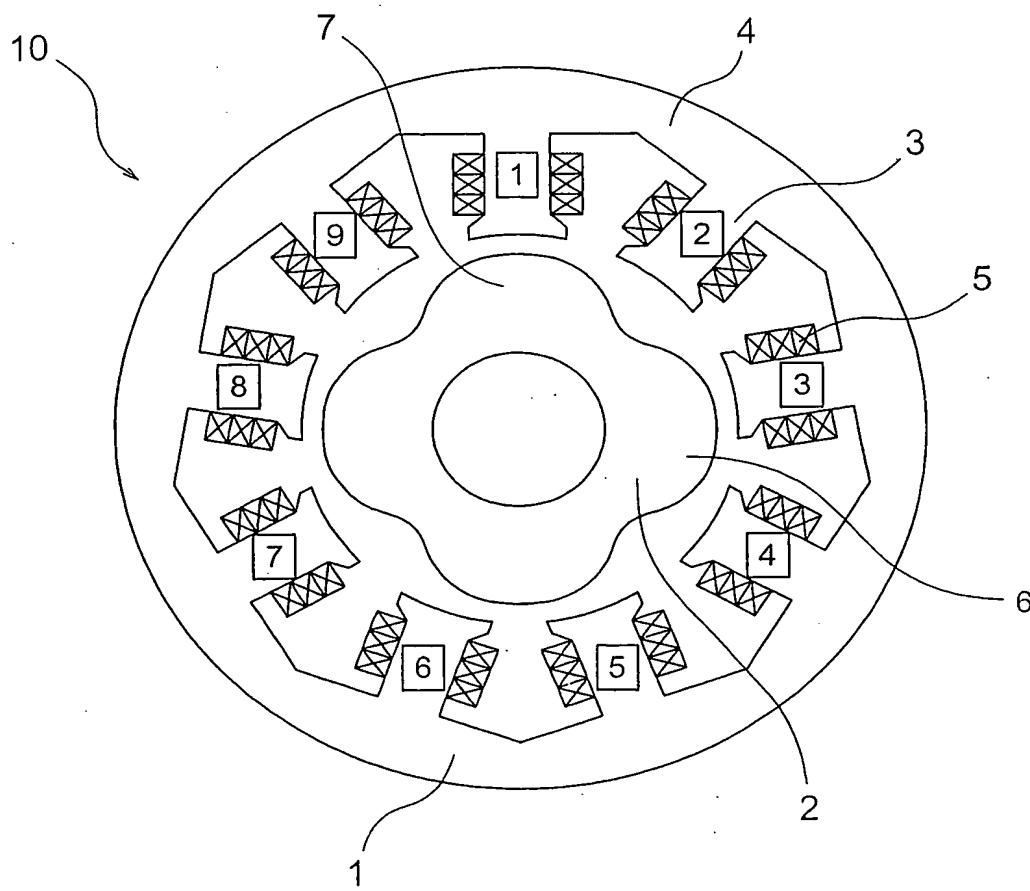


FIG. 10



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FIG. 11



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FIG. 12

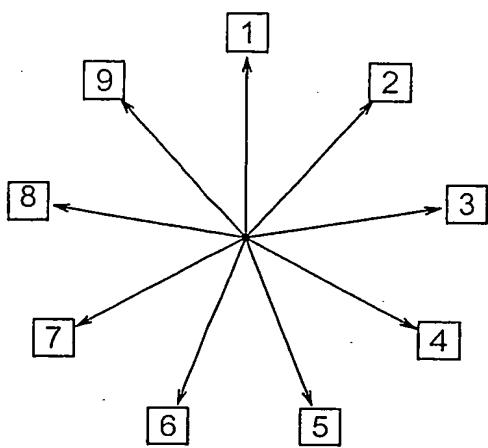
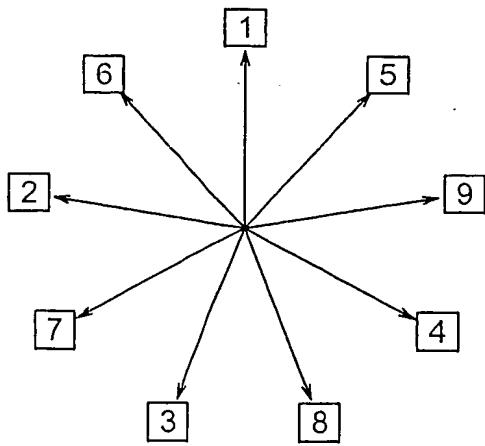


FIG. 13



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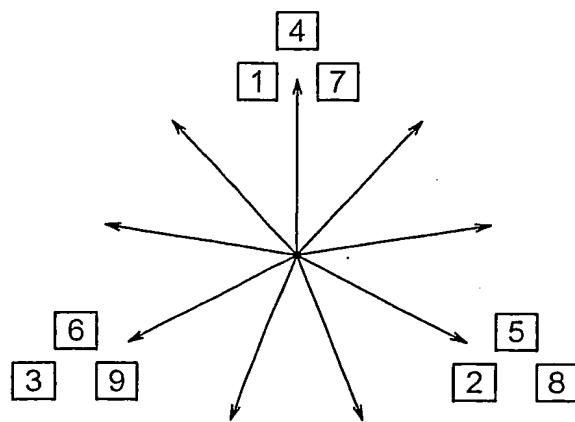


FIG. 15

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	1.0	-0.5	-0.5	1.0	-0.5	-0.5	1.0	-0.5	-0.5
U-PHASE	1.0	0.0	0.0	0.0	0.0	-1.0	-1.0	0.0	0.0
V-PHASE	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
W-PHASE	0.0	-1.0	-1.0	0.0	0.0	0.0	0.0	-1.0	-1.0

FIG. 16

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	1.0000	-0.5000	-0.5000	1.0000	-0.5000	-0.5000	1.0000	-0.5000	-0.5000
α -PHASE WINDING	0.8165	0.4082	0.4082	-0.4082	-0.8165	-0.8165	-0.4082	0.4082	0.4082
β -PHASE WINDING	0.0000	0.7071	0.7071	0.7071	0.0000	0.0000	-0.7071	-0.7071	-0.7071

FIG. 17

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	50.00	-25.00	-25.00	50.00	-25.00	-25.00	50.00	-25.00	-25.00
α -PHASE WINDING	122.47	61.24	61.24	-61.24	-122.47	-122.47	-61.24	61.24	61.24
β -PHASE WINDING	0.00	106.07	106.07	106.07	0.00	0.00	-106.07	-106.07	-106.07

FIG. 18

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	50	-25	-25	50	-25	-25	50	-25	-25
α -PHASE WINDING	122	61	61	-61	-122	-122	-61	61	61
β -PHASE WINDING	0	106	106	106	0	0	-106	-106	-106

FIG. 19

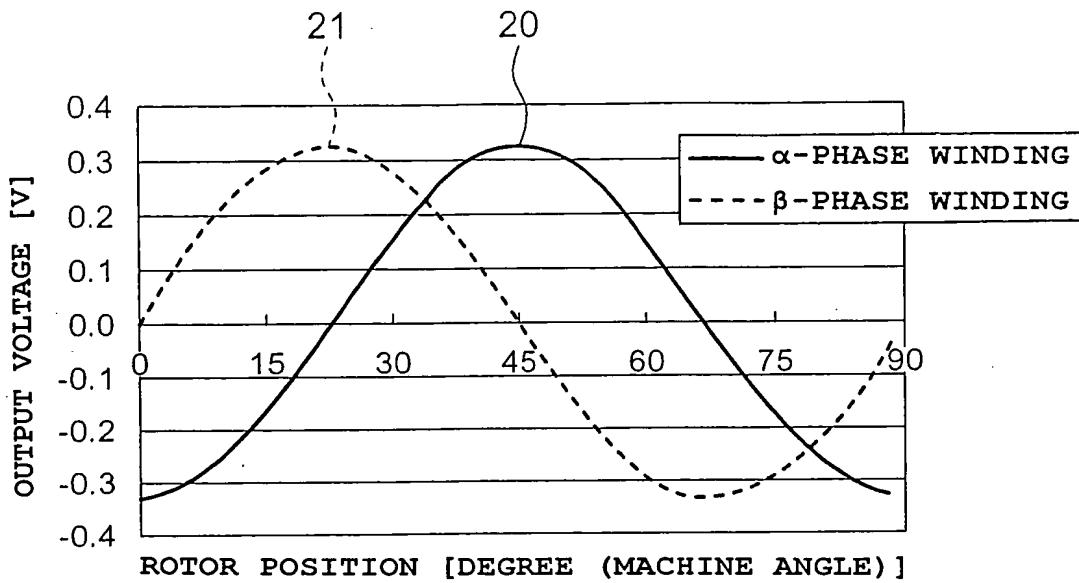
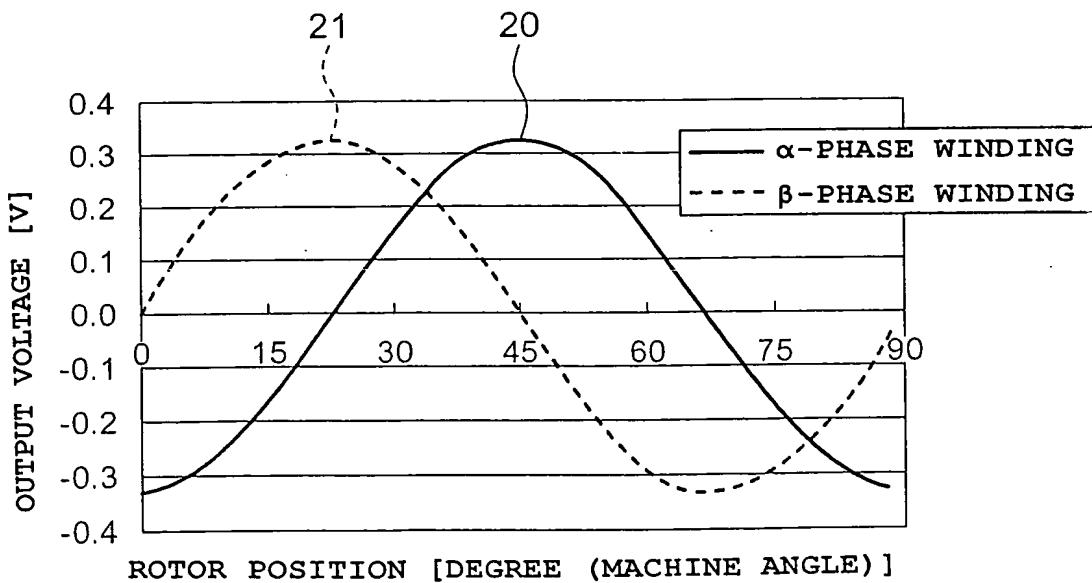


FIG. 20



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FIG. 21

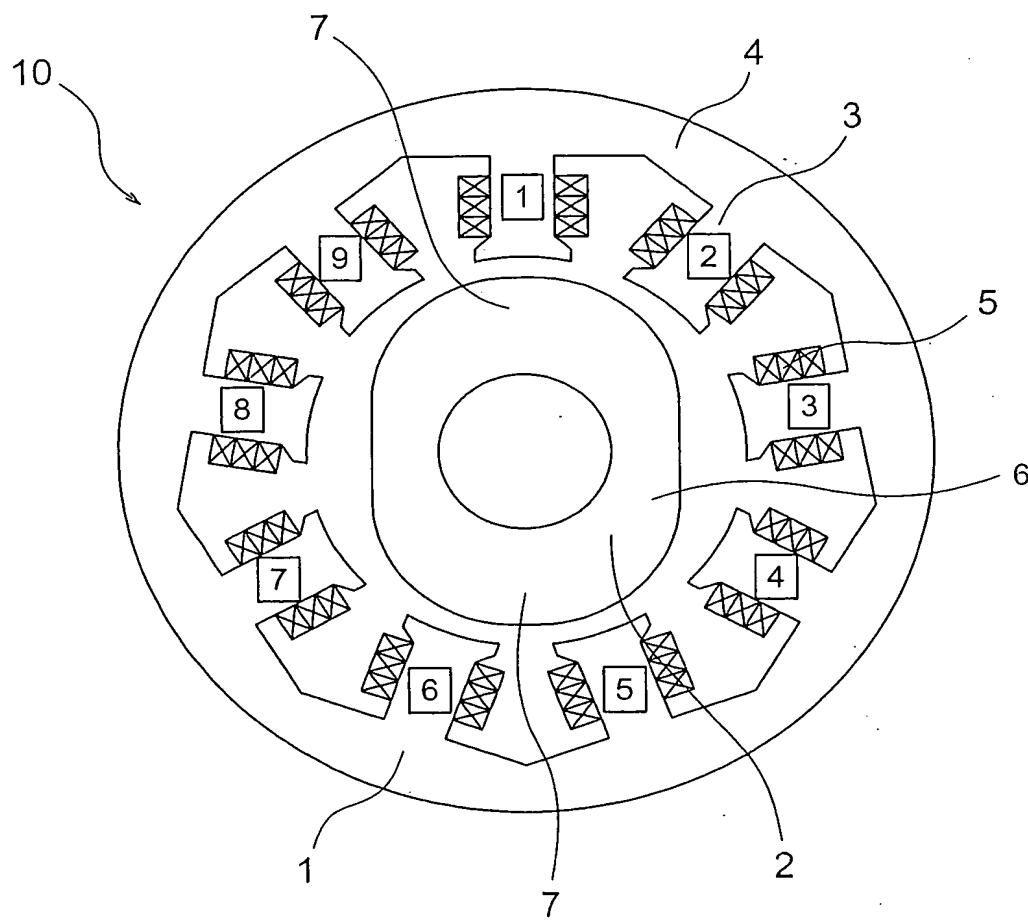


FIG. 22

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	1.0	-0.5	-0.5	1.0	-0.5	-0.5	1.0	-0.5	-0.5
U-PHASE	1.0	0.0	0.0	0.0	-1.0	-1.0	0.0	0.0	0.0
V-PHASE	0.0	-1.0	-1.0	0.0	0.0	0.0	1.0	0.0	0.0
W-PHASE	0.0	0.0	0.0	1.0	0.0	0.0	0.0	-1.0	-1.0

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FIG. 23

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	1.0000	-0.5000	-0.5000	1.0000	-0.5000	-0.5000	1.0000	-0.5000	-0.5000
α -PHASE WINDING	0.8165	0.4082	0.4082	-0.4082	-0.8165	-0.8165	-0.4082	0.4082	0.4082
β -PHASE WINDING	0.0000	-0.7071	-0.7071	0.0000	0.0000	0.7071	0.7071	0.7071	0.7071

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FIG. 24

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	50.00	-25.00	-25.00	50.00	-25.00	-25.00	50.00	-25.00	-25.00
α -PHASE WINDING	122.47	61.24	61.24	-61.24	-122.47	-122.47	-61.24	61.24	61.24
β -PHASE WINDING	0.00	-106.07	-106.07	-106.07	0.00	0.00	106.07	106.07	106.07

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FIG. 25

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	50	-25	-25	50	-25	-25	50	-25	-25
α -PHASE WINDING	122	61	61	-61	-122	-122	-61	61	61
β -PHASE WINDING	0	-106	-106	-106	0	0	106	106	106

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FIG. 26

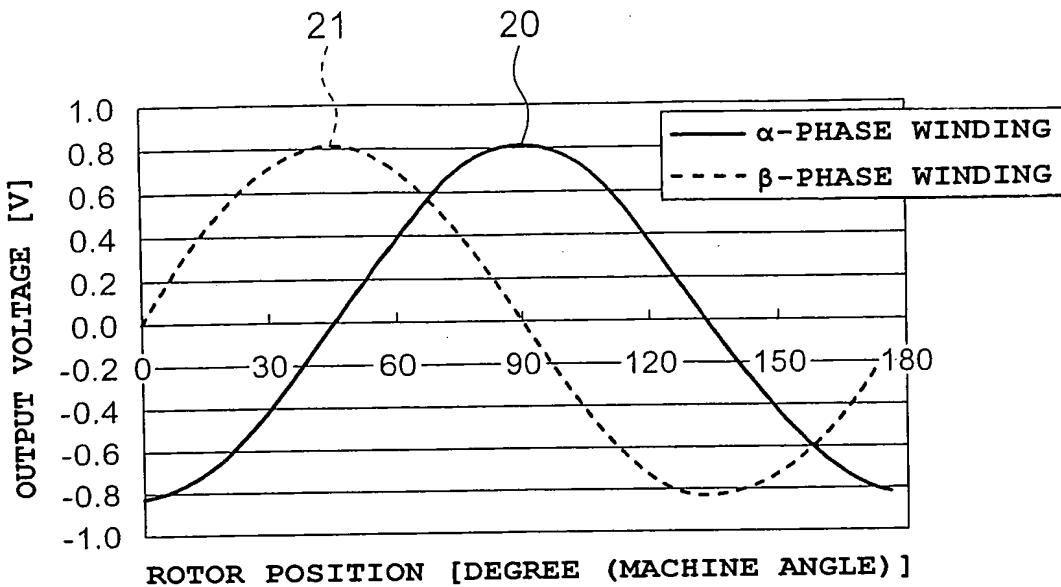
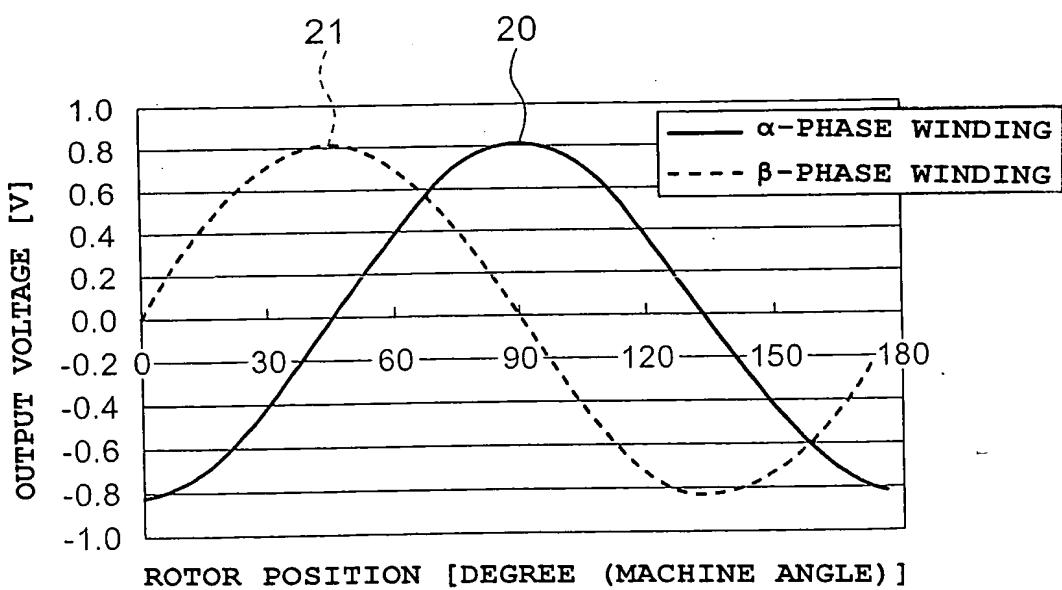
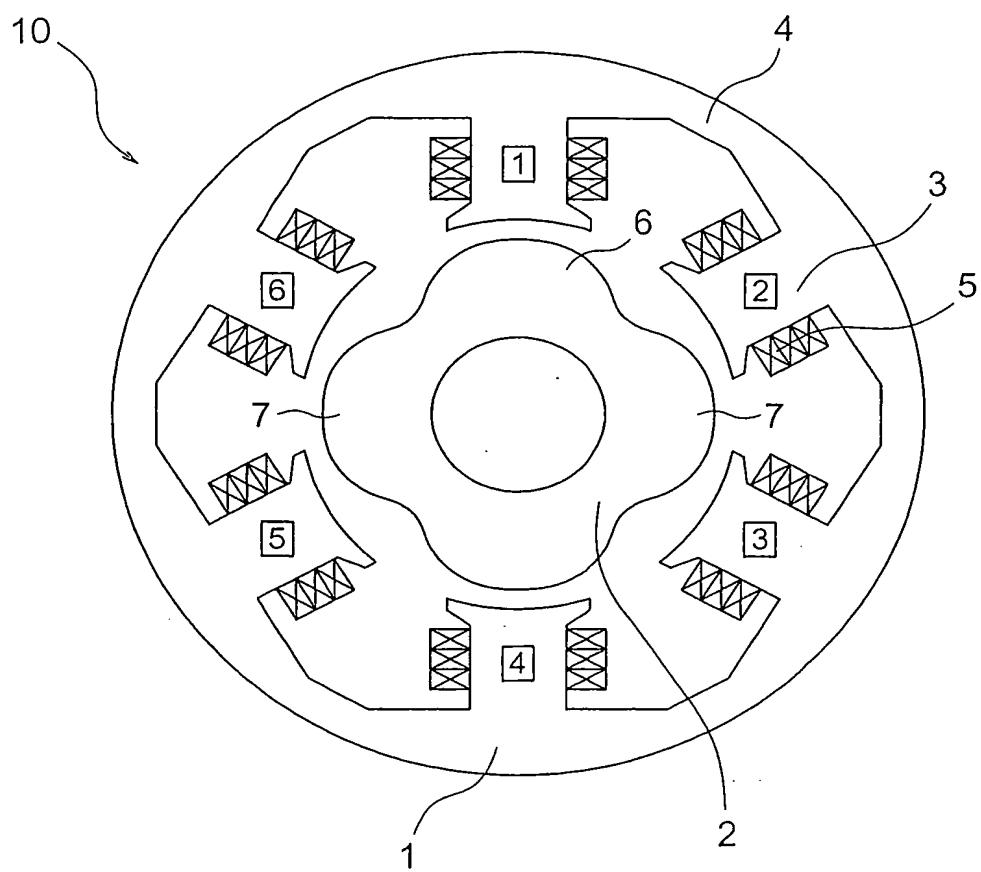


FIG. 27



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FIG. 28



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FIG. 29

TEETH NUMBER	1	2	3	4	5	6
EXCITATION WINDING	1.0	-1.0	1.0	-1.0	1.0	-1.0
U-PHASE	1.0	1.0	1.0	0.0	0.0	0.0
V-PHASE	0.0	0.0	1.0	1.0	1.0	0.0
W-PHASE	1.0	0.0	0.0	0.0	1.0	1.0

FIG. 30

TEETH NUMBER	1	2	3	4	5	6
EXCITATION WINDING	1.0000	-1.0000	1.0000	-1.0000	1.0000	-1.0000
α -PHASE WINDING	0.4082	0.8165	0.4082	-0.4082	-0.8165	-0.4082
β -PHASE WINDING	-0.7071	0.0000	0.7071	0.7071	0.0000	-0.7071

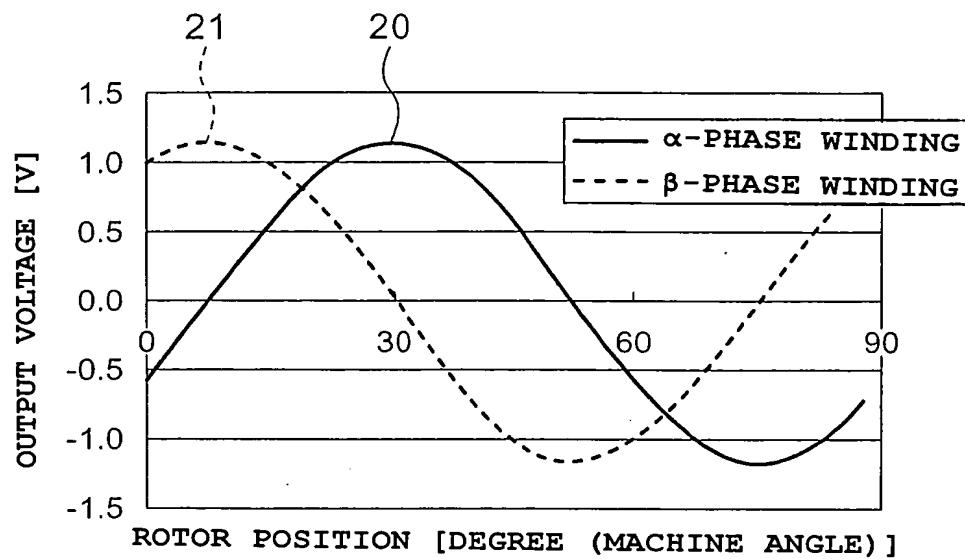
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FIG. 31

TEETH NUMBER	1	2	3	4	5	6
EXCITATION WINDING	50	-50	50	-50	50	-50
α -PHASE WINDING	61	122	61	-61	-122	-61
β -PHASE WINDING	-106	0	106	106	0	-106

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FIG. 32



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FIG. 33

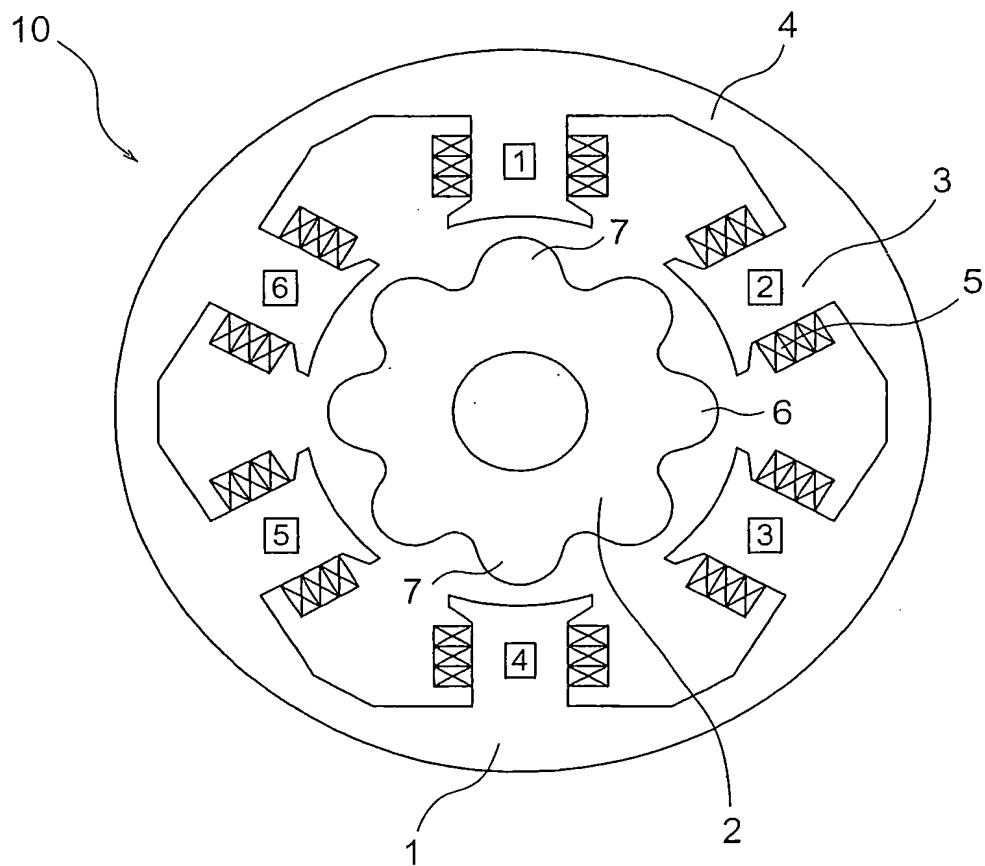


FIG. 34

TEETH NUMBER	1	2	3	4	5	6
EXCITATION WINDING	1.0	-1.0	1.0	-1.0	1.0	-1.0
U-PHASE	1.0	1.0	1.0	0.0	0.0	0.0
V-PHASE	1.0	0.0	0.0	0.0	1.0	1.0
W-PHASE	0.0	0.0	1.0	1.0	1.0	0.0

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FIG. 35

TEETH NUMBER	1	2	3	4	5	6
EXCITATION WINDING	1.00000	-1.00000	1.00000	-1.00000	1.00000	-1.00000
α -PHASE WINDING	0.4082	0.8165	0.4082	-0.4082	-0.8165	-0.4082
β -PHASE WINDING	0.7071	0.0000	-0.7071	-0.7071	0.0000	0.7071

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FIG. 36

TEETH NUMBER	1	2	3	4	5	6
EXCITATION WINDING	50	-50	50	-50	50	-50
α -PHASE WINDING	61	122	61	-61	-122	-61
β -PHASE WINDING	106	0	-106	-106	0	106

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FIG. 37

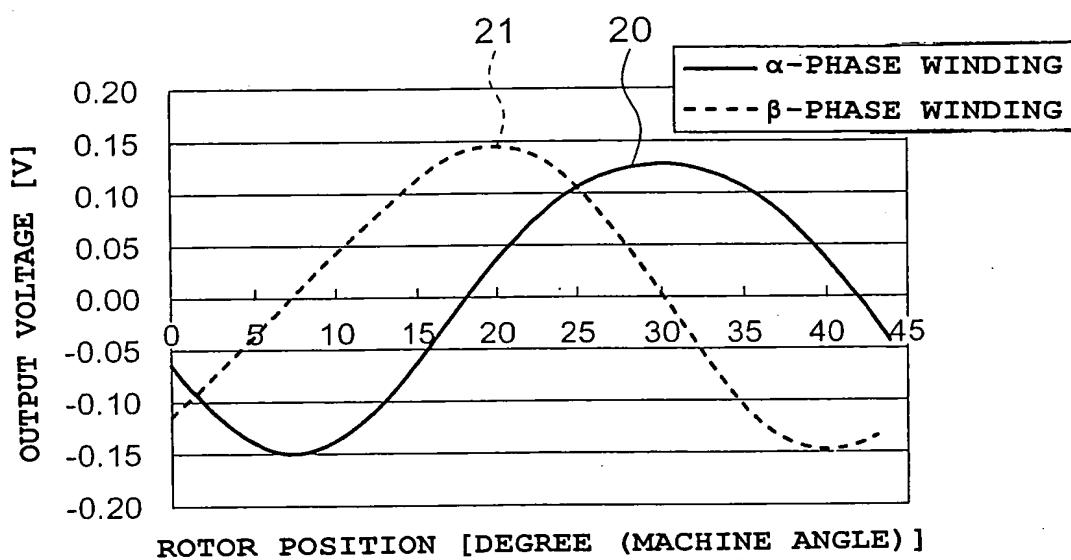
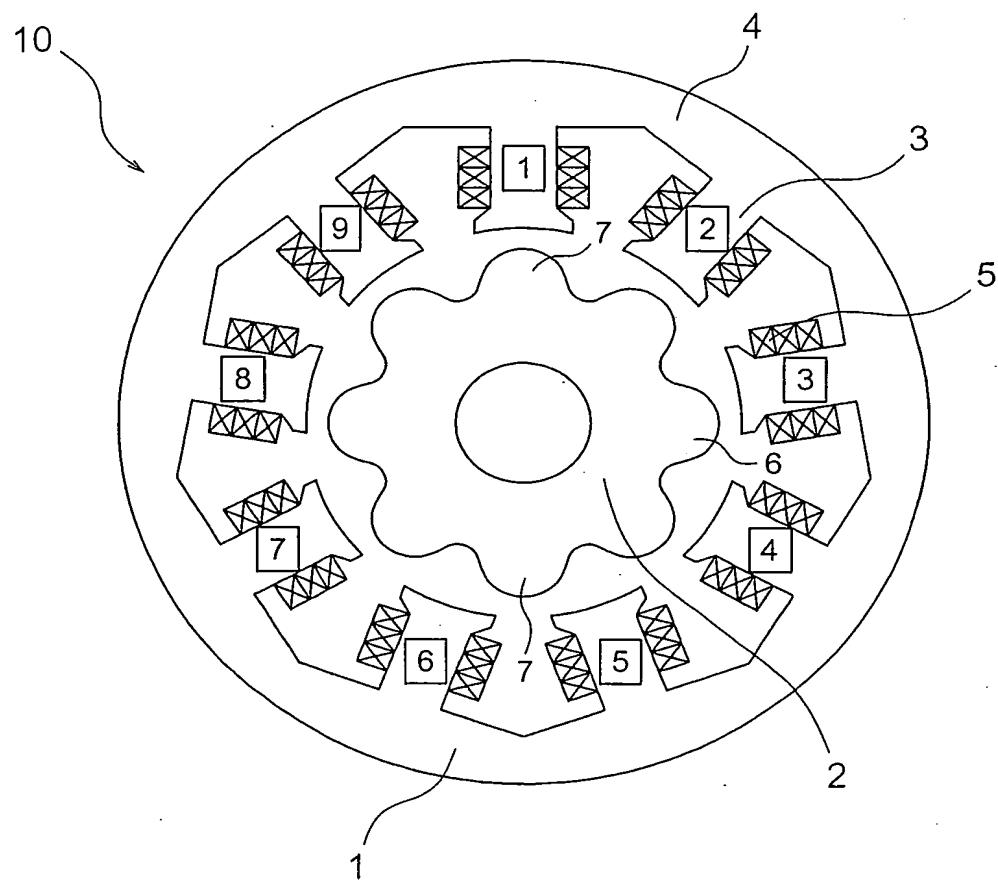


FIG. 38



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FIG. 39

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	1.0	-0.5	-0.5	1.0	-0.5	-0.5	1.0	-0.5	-0.5
U-PHASE	1.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.0
V-PHASE	0.0	0.0	0.0	0.0	0.0	0.0	-1.0	1.0	-1.0
W-PHASE	0.0	0.0	-1.0	1.0	-1.0	0.0	0.0	0.0	0.0

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FIG. 40

TEETH NUMBER	1	2	3	4	.5	6	7	8	9
EXCITATION WINDING	1.0000	-0.5000	-0.5000	1.0000	-0.5000	-0.5000	1.0000	-0.5000	-0.5000
α -PHASE WINDING	0.8165	-0.8165	0.4082	-0.4082	0.4082	0.4082	-0.4082	0.4082	-0.8165
β -PHASE WINDING	0.0000	0.0000	0.7071	-0.7071	0.7071	-0.7071	0.7071	-0.7071	0.0000

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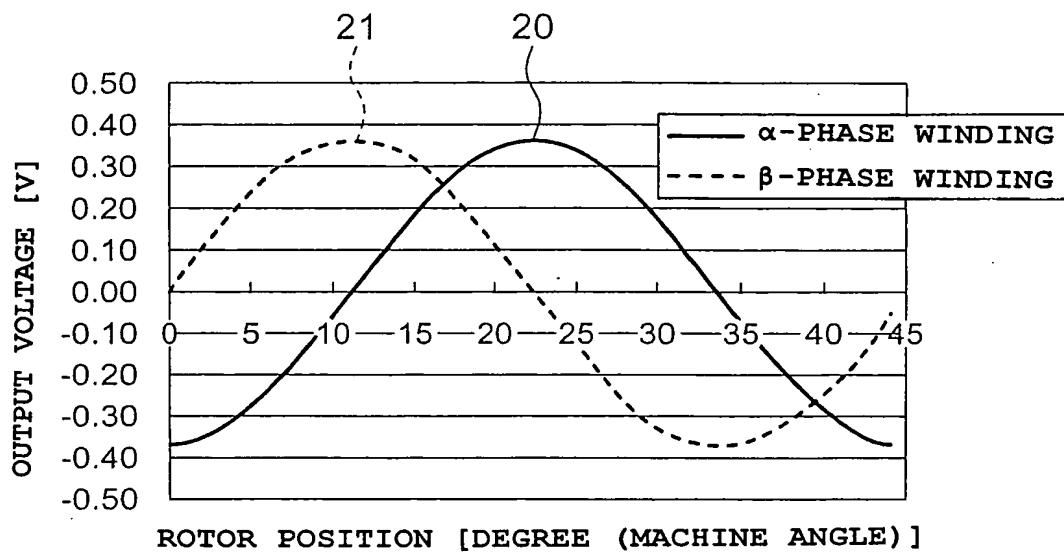
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FIG. 41

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	50	-25	-25	50	-25	-25	50	-25	-25
α -PHASE WINDING	122	-122	61	-61	61	61	-61	61	-122
β -PHASE WINDING	0	0	106	-106	106	-106	106	-106	0

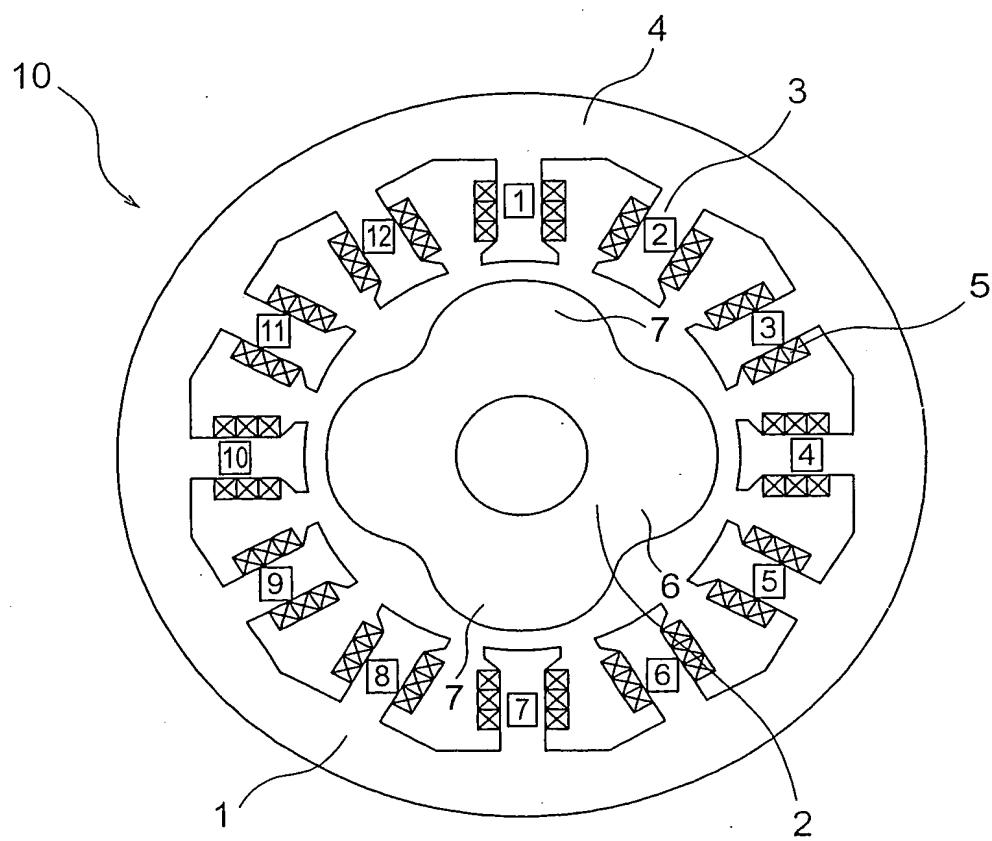
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FIG. 43



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FIG. 44

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
U-PHASE WINDING	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V-PHASE WINDING	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
W-PHASE WINDING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0

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FIG. 45

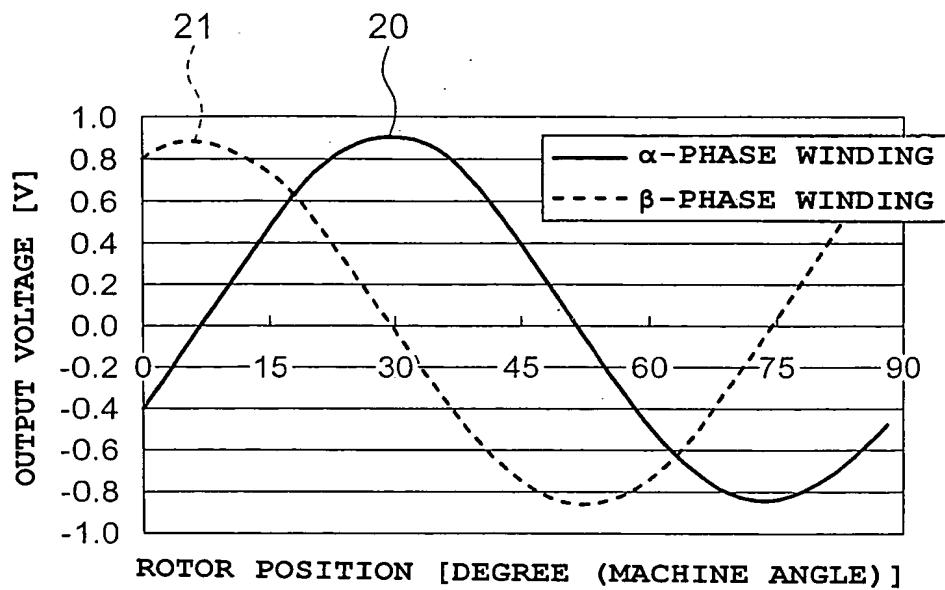
TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
α -PHASE WINDING	0.8165	0.8165	0.8165	0.0000	-0.4082	-0.4082	0.0000	-0.4082	-0.4082	-0.4082	0.0000	0.0000
β -PHASE WINDING	0.0000	0.0000	0.0000	0.0000	0.7071	0.7071	0.7071	0.0000	-0.7071	-0.7071	-0.7071	0.0000

FIG. 46

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	1.0	-1.0	-1.0
α -PHASE WINDING	122	122	122	0	-61	-61	0	-61	0	-61	-61	0
β -PHASE WINDING	0	0	0	0	106	106	106	0	-106	-106	-106	0

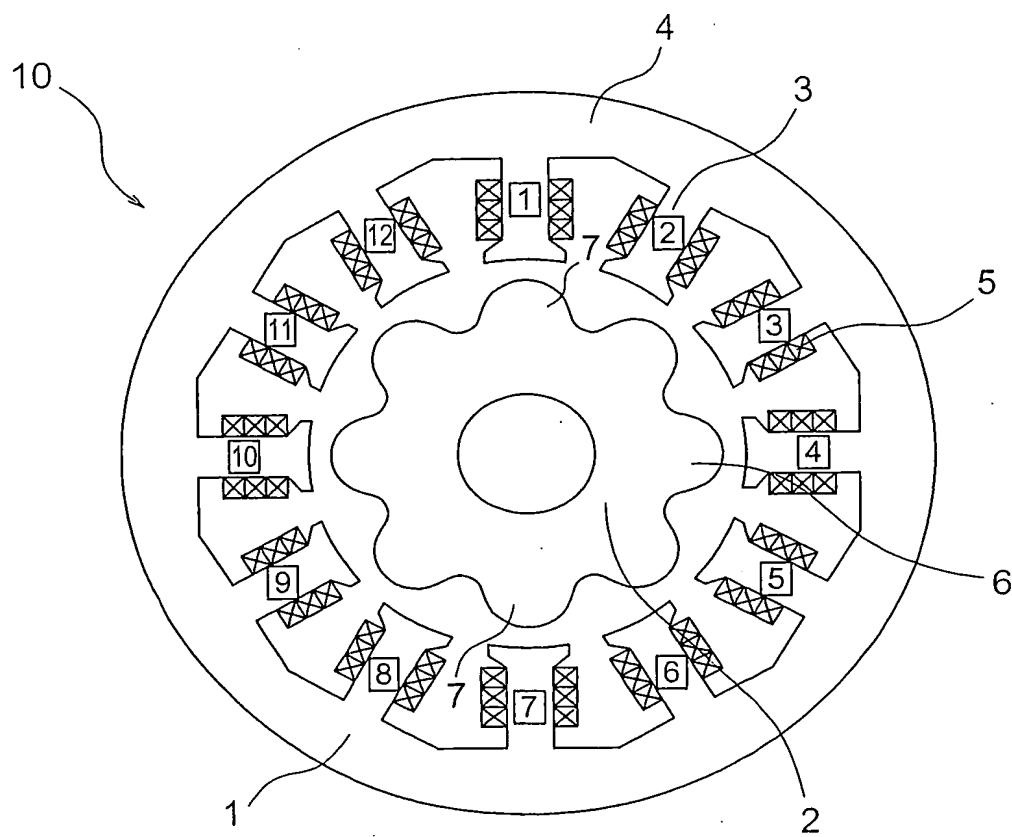
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FIG. 47



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FIG. 48



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FIG. 49

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	1.0	-1.0
U-PHASE WINDING	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V-PHASE WINDING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0
W-PHASE WINDING	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0

FIG. 50

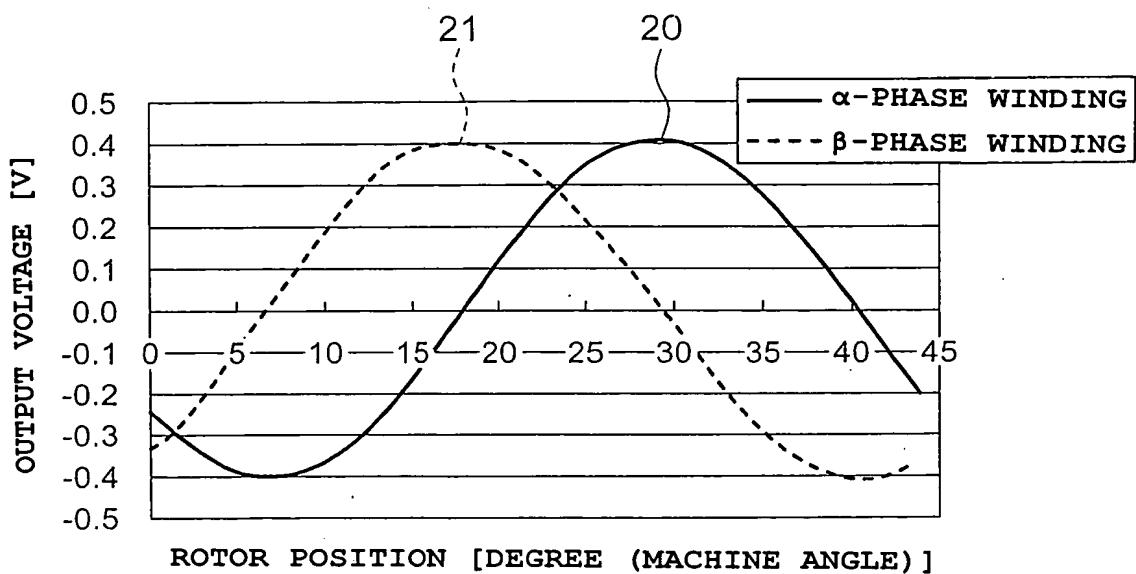
TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
α -PHASE WINDING	0.8165	0.8165	0.0000	-0.4082	-0.4082	0.0000	-0.4082	-0.4082	-0.4082	-0.4082	0.0000	0.0000
β -PHASE WINDING	0.0000	0.0000	0.0000	-0.7071	-0.7071	0.0000	0.7071	0.7071	0.7071	0.7071	0.0000	0.0000

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FIG. 51

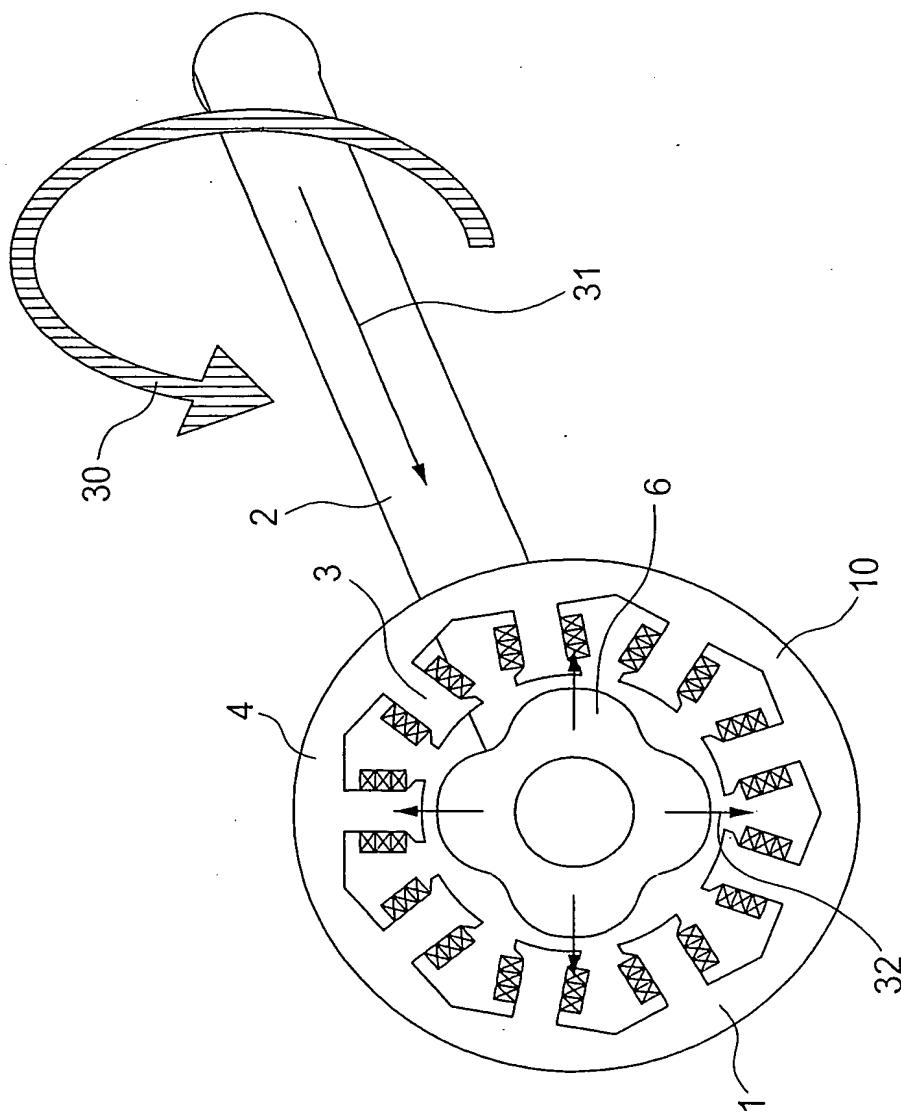
TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
α -PHASE WINDING	122	122	122	0	-61	-61	-61	0	-61	-61	-61	0
β -PHASE WINDING	0	0	0	0	-106	-106	-106	0	106	106	106	0

FIG. 52



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FIG. 53



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FIG. 54

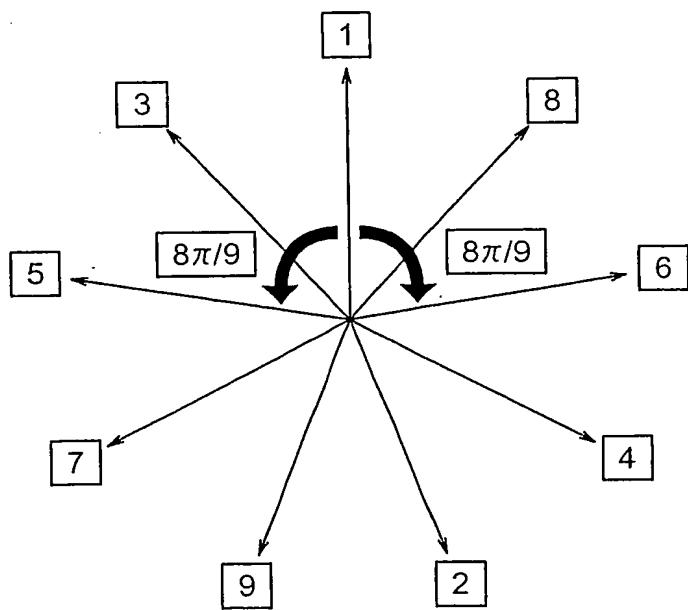


FIG. 55

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	1.0	-0.5	-0.5	1.0	-0.5	-0.5	1.0	-0.5	-0.5
U-PHASE WINDING	$2\cos\frac{4\pi}{9}$	0.0	0.0	0.0	-1.0	-1.0	0.0	0.0	0.0
V-PHASE WINDING	0.0	0.0	0.0	$2\cos\frac{4\pi}{9}$	0.0	0.0	0.0	-1.0	-1.0
W-PHASE WINDING	0.0	-1.0	-1.0	0.0	0.0	0.0	$2\cos\frac{4\pi}{9}$	0.0	0.0

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FIG. 56

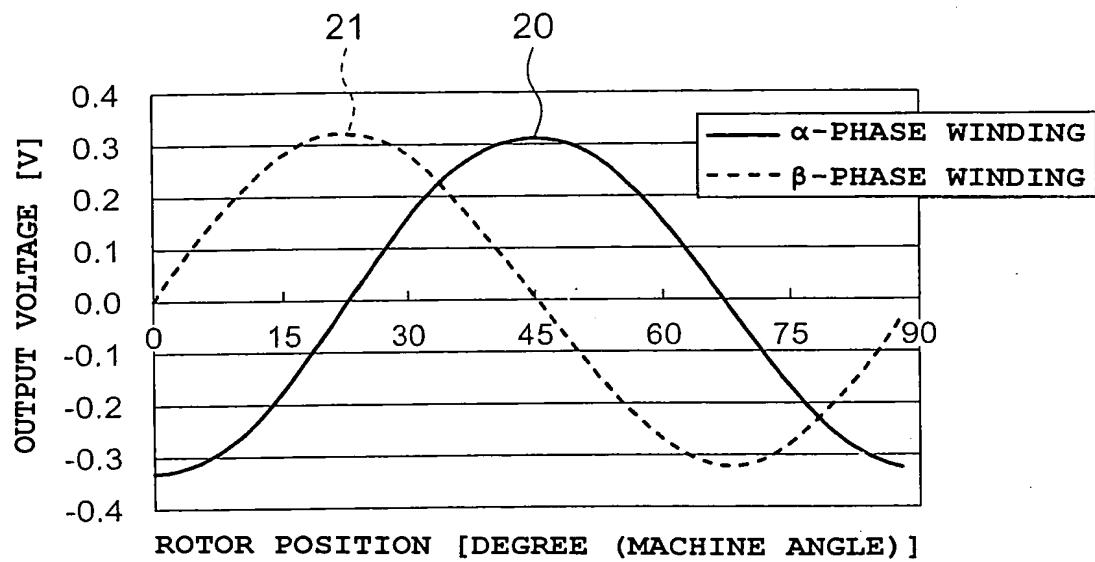
TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	1.0	-0.5	-0.5	1.0	-0.5	-0.5	1.0	-0.5	-0.5
α -PHASE WINDING	0.2836	0.4082	0.4082	-0.1418	-0.8165	-0.8165	-0.1418	0.4082	0.4082
β -PHASE WINDING	0.0000	0.7071	0.7071	0.2456	0.0000	0.0000	-0.2456	-0.7071	-0.7071

FIG. 57

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	50	-25	-25	50	-25	-25	50	-25	-25
α -PHASE WINDING	43	61	61	-21	-122	-122	-21	61	61
β -PHASE WINDING	0	106	106	37	0	0	-37	-106	-106

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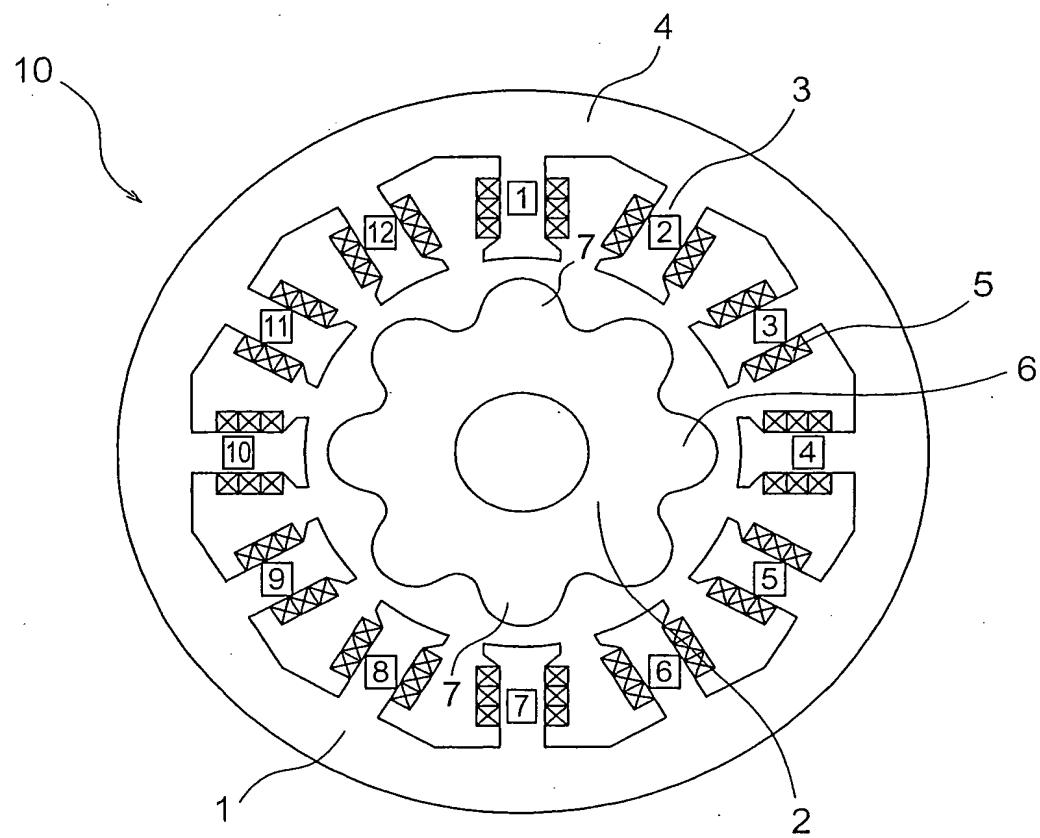


FIG. 60

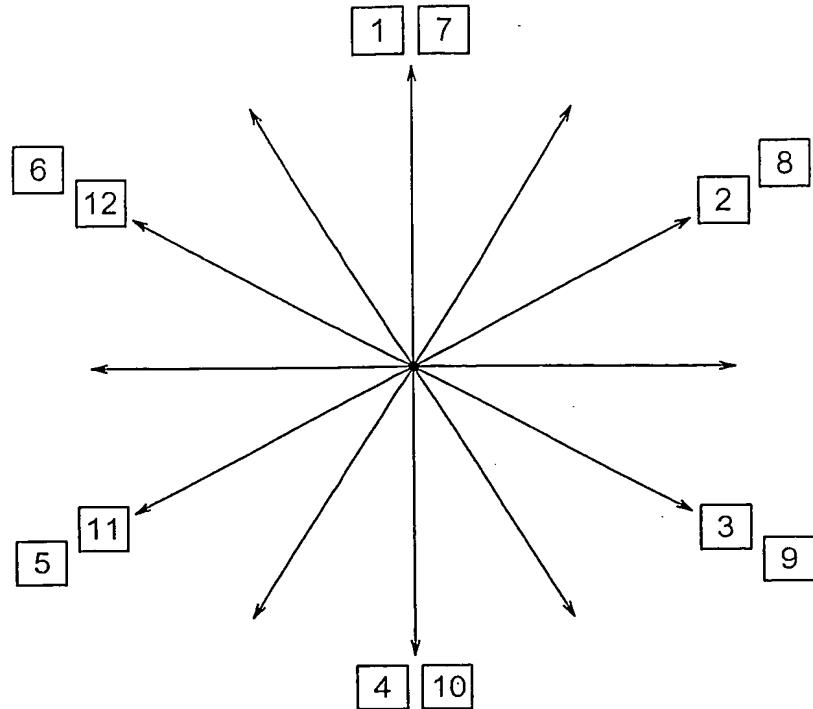
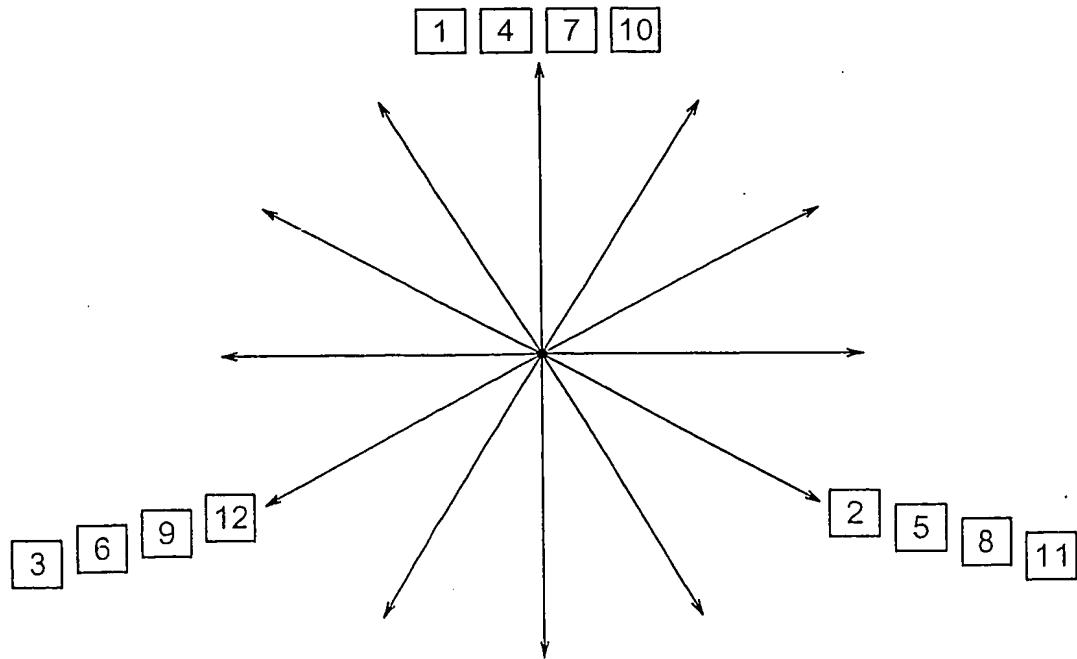


FIG. 61



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FIG. 62

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
U-PHASE WINDING	1.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V-PHASE WINDING	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0
W-PHASE WINDING	0.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0

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FIG. 63

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FIG. 64

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	1.0	-1.0	-1.0
U-PHASE WINDING	1.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0
V-PHASE WINDING	1.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	1.0	0.0	1.0	0.0
W-PHASE WINDING	0.0	1.0	0.0	1.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0

FIG. 65

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	1.0
α -PHASE WINDING	0.4082	0.0000	0.8165	0.0000	0.4082	0.0000	-0.4082	0.0000	-0.8165	0.0000	-0.4082	0.0000
β -PHASE WINDING	0.7071	0.0000	0.0000	0.0000	-0.7071	0.0000	-0.7071	0.0000	0.0000	0.0000	0.7071	0.0000

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FIG. 66

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
α -PHASE WINDING	0.4082	0.4082	0.8165	0.8165	0.4082	0.4082	-0.4082	-0.4082	-0.8165	-0.8165	-0.4082	-0.4082
β -PHASE WINDING	0.7071	0.7071	0.0000	0.0000	-0.7071	-0.7071	-0.7071	-0.7071	0.0000	0.0000	0.7071	0.7071

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FIG. 67

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
α -PHASE WINDING	0.4082	-0.4082	0.8165	-0.8165	0.4082	-0.4082	0.4082	-0.4082	0.8165	0.8165	-0.4082	0.4082
β -PHASE WINDING	0.7071	-0.7071	0.0000	0.0000	-0.7071	0.7071	-0.7071	0.7071	0.0000	0.0000	0.7071	-0.7071

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FIG. 68

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	50	50	-50	-50	50	50	-50	-50	50	50	-50	-50
α -PHASE WINDING	61	0	122	0	61	0	-61	0	-122	0	-61	0
β -PHASE WINDING	106	0	0	0	-106	0	-106	0	0	0	106	0

FIG. 69

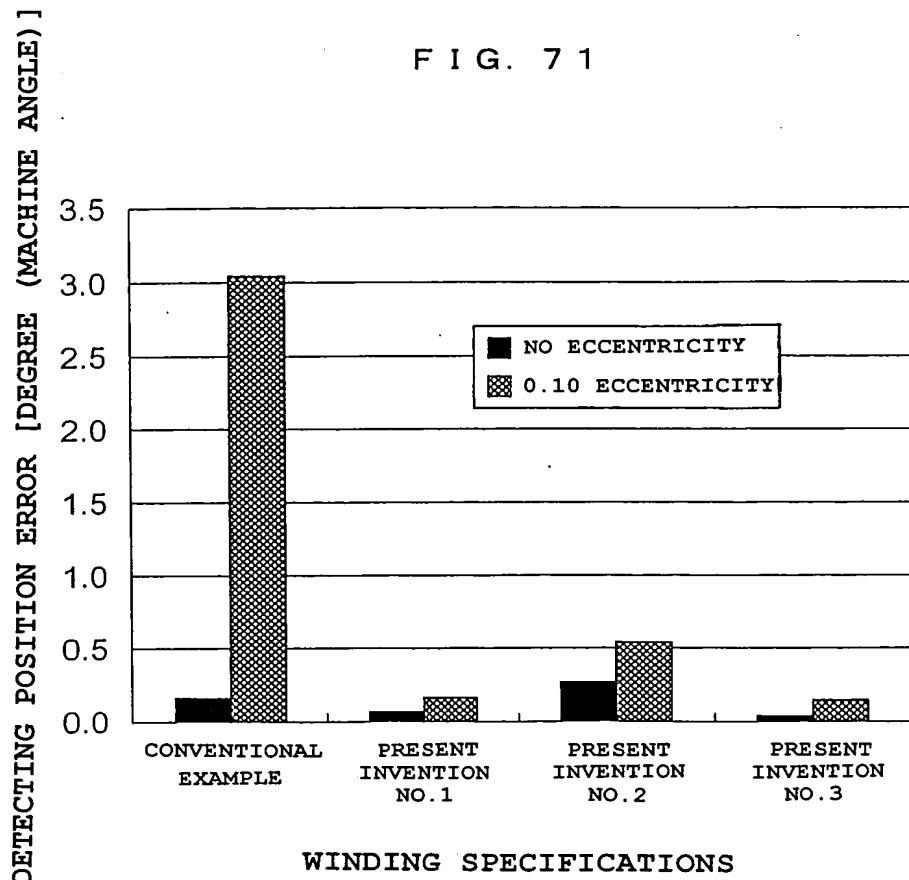
TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	50	50	-50	-50	50	50	-50	-50	50	50	-50	-50
α -PHASE WINDING	61	61	122	122	61	61	-61	-61	-122	-122	-61	-61
β -PHASE WINDING	106	106	0	0	-106	-106	-106	0	0	106	106	106

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FIG. 70

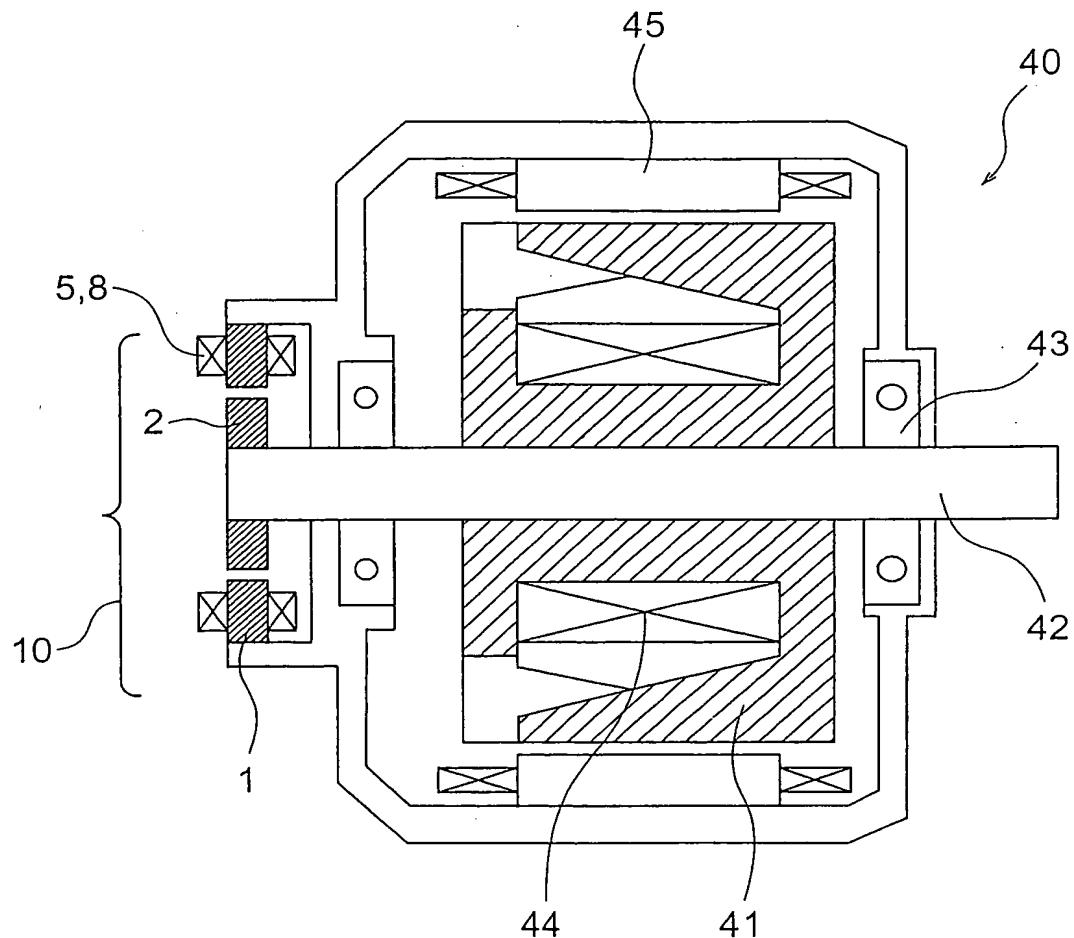
TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	50	50	-50	-50	50	50	-50	-50	50	50	-50	-50
α -PHASE WINDING	61	-61	122	-122	61	-61	61	-61	61	-122	122	-61
β -PHASE WINDING	106	-106	0	0	-106	106	-106	106	0	0	106	-106

FIG. 71



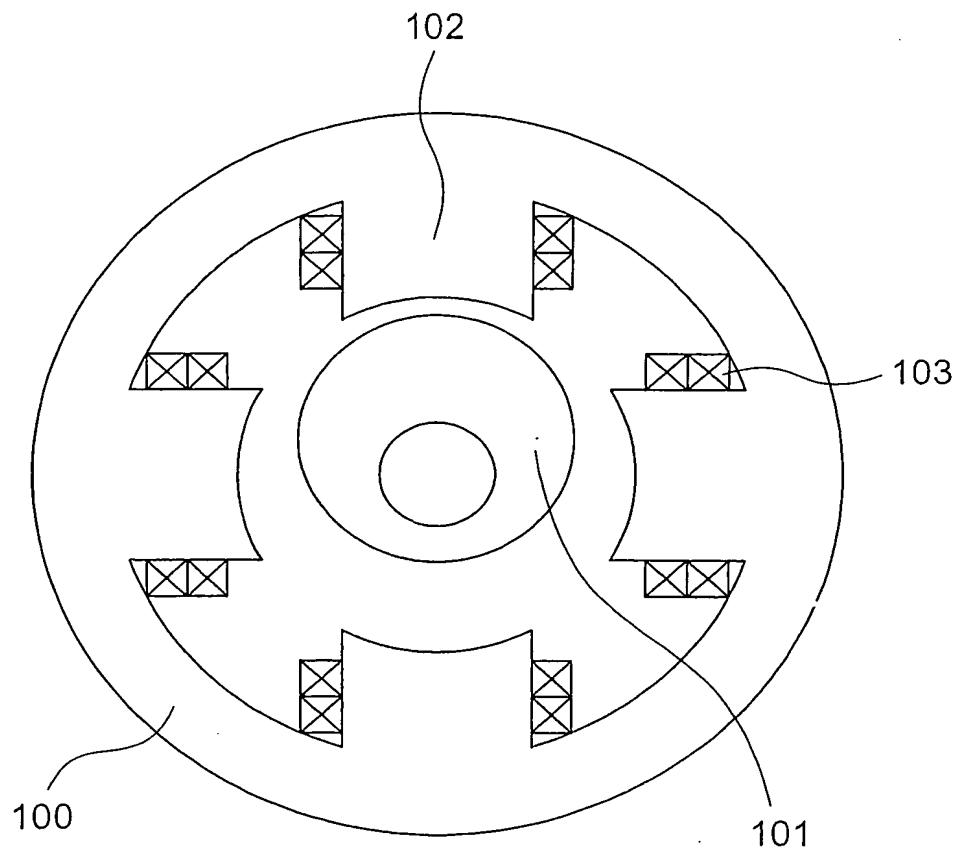
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FIG. 73



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FIG. 74

